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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/828,870	04/10/2001	Thomas D. Chittenden	104322.147 US5	7819
24395	7590 10/18/2004		EXAMINER	
	UTLER PICKERING RD OFFICE BUILDING	SCHULTZ, JAMES		
1455 PENNSYLVANIA AVE, NW			ART UNIT	PAPER NUMBER
	ON, DC 20004		1635	

DATE MAILED: 10/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/828,870	CHITTENDEN ET AL.			
		Examiner	Art Unit			
		J. D. Schultz, Ph.D.	1635			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl o period for reply is specified above, the maximum statutory period variet to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be till y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed on 30 Ju	uly 20 <u>04</u> .				
2a) <u></u>	This action is FINAL . 2b) This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5) 6) 7)	Claim(s) <u>28-39</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>28-39</u> are subject to restriction and/or	wn from consideration.				
Applicati	ion Papers					
9)☐ The specification is objected to by the Examiner.						
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority ι	ınder 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachmen		_				
2) 🔲 Notic 3) 🔲 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) lnterview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

Status of Election/Restrictions

Applicant's election with traverse of Group I and SEQ ID NO: 36 in the reply filed on July 30, 2003 is acknowledged. However, the restriction requirement of July 1, 2004 inadvertantly provided improper directions to choose one sequence if Group I is elected, and a single combination of sequences if Group II were elected. These directions are not considered to be internally consistent with the concepts of the two inventions for the following reasons. Group I is directed to methods of detecting heterodimerization (i.e. the interaction of two different sequences) between any of SEQ ID NOS: 35-41, and thus restriction cannot be to a single sequence in this method, since by definition heterodimerization must be between two different sequences. Therefore, if Group I is elected, drawn to methods of detecting heterodimerization, applicants are directed to elect a single combination of sequences chosen from SEQ ID NOS: 35-41. Alternatively, should Group II be elected, drawn to methods of detecting homodimerization, which by definition is the interaction of two identical sequences, applicants are directed to elect a single sequence chosen from SEQ ID NOS: 35-41.

The restriction requirement of July 1, 2004 is provided below with corrections as discussed above.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 28 and 30-36, drawn to a method of identifying an agent that modulatesGD domain mediated heterodimerization, classified in class 435, subclass 6.

II. Claims 29 and 37-39, drawn to a method of identifying an agent that modulatesGD domain mediated homodimerization, classified in class 435, subclass 6.

The inventions are distinct, each from the other because of the following reasons: inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to methods with different modes of operation and different effects. For example, the methods of Group I operate by determining modulation of two different GD domain proteins and have the effect of identifying modulators of heterodimerization, whereas the methods of Group II operate by determining modulations of the same GD domain proteins and have the effect of identifying modulators of homodimerization. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

Further Restriction to a Single Nucleotide Sequence

Pursuant to 35 U.S.C. 121 and 37 C.F.R. 1.141, the sequences listed in claims 28, 29, 32, 34-36, and 39 are subject to restriction. Upon election of a Group from those listed above, Applicant is further required to elect a single combination of nucleotide sequences if Group I is elected, or a single sequence if Group II is elected. In each case, this sequence election will be

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considered to be an election of the corresponding single named GD Domain protein type (or combination thereof (E.g. Bak, Bcl-xl, bax or Bip1a).

The Commissioner has partially waived the requirements of 37 C.F.R. 1 .141 and will permit a reasonable number of such nucleotide sequences to be claimed in a single application. Under this policy, up to 10 independent and distinct nucleotide sequences will be examined in a single application. (see MPEP 803.04 and 2434). However, due to the enormous search burden placed on the Office for sequence searching and the complex nature of the search and examination of the methods associated with these sequences, one recombinant gene sequence chosen from the claimed sequences of SEQ ID NOS: 35-41 (or one specific combination in the case of Group I) has been determined to be a reasonable number of sequences to be searched, particularly since the search for one sequence is independent and non-coextensive with the search for another. Claims 28, 29, 32, 34-36, and 39 are directed to methods wherein the GD Domain protein can be any of SEQ ID NOS:35-41. Each of these sequences are considered to be unrelated, since each sequence claimed is structurally and functionally independent and distinct for the following reasons: each sequence has a unique amino acid sequence, and each of these protein functions in a distinct fashion, for example, with regard to binding activity. Furthermore, a search of more than one (1) of the sequences claimed in claims 28, 29, 32, 34-36, and 39 presents an undue burden on the Patent and Trademark Office due to the complex nature of the search and corresponding examination of more than one (1) of the claimed sequences. In view of the foregoing, one (1) sequence is considered to be a reasonable number of sequences for examination. Accordingly, applicants are required to elect a single combination of sequence (in

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the case of Group I) or one (1) sequence from claims 28, 29, 32, 34-36, and 39 (in the case of an election of Group II).

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to J. Douglas Schultz, Ph.D. whose telephone number is 571-272-0763. The examiner can normally be reached on 8:00-4:30 M-F. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John L. LeGuyader can be reached on 571-272-0760. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the

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USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

JDS

JD Schultz, PhD Patent Examiner Art Unit 1635